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**Cc:** Odendahl, Steve[Odendahl.Steve@epa.gov]; Denawa, Mai[Denawa.Mai@epa.gov]; Dresser, Chris[Dresser.Chris@epa.gov]; Anderson, Carol[Anderson.Carol@epa.gov]; Schuller, Jennifer[Schuller.Jennifer@epa.gov]; Jackson, Scott[Jackson.Scott@epa.gov]; Rickard, Joshua[Rickard.Joshua@epa.gov]  
**From:** Berry, Laura  
**Sent:** Wed 11/16/2016 9:07:32 PM  
**Subject:** RE: DRAFT Information for Transmittal to CDOT/FHWA Regarding 10/25/16 Cooperating Agencies Meeting

Hi Tim,

We're thinking we should schedule a conference call with FHWA & EPA (including R8). I'll talk to Karen at FHWA tomorrow morning. We should send a list of agenda items, based on what you have below. Leaving now; let's touch base tomorrow.

*Laura Berry*

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**From:** Russ, Timothy  
**Sent:** Wednesday, November 16, 2016 12:41 PM  
**To:** Patulski, Meg <patulski.meg@epa.gov>; Berry, Laura <berry.laura@epa.gov>; Dubey, Susmita <dubey.susmita@epa.gov>  
**Cc:** Odendahl, Steve <Odendahl.Steve@epa.gov>; Denawa, Mai <Denawa.Mai@epa.gov>; Dresser, Chris <Dresser.Chris@epa.gov>; Anderson, Carol <Anderson.Carol@epa.gov>; Schuller, Jennifer <Schuller.Jennifer@epa.gov>; Jackson, Scott <Jackson.Scott@epa.gov>; Rickard, Joshua <Rickard.Joshua@epa.gov>  
**Subject:** DRAFT Information for Transmittal to CDOT/FHWA Regarding 10/25/16 Cooperating Agencies Meeting

Hi Everyone,

## Ex. 5 - Deliberative Process

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Thanks to all for your review and edits!

Tim

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# Ex. 5 - Deliberative Process

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**La Casa (CASA)**  
Region: Denver  
Monitoring Station  
4545 Navajo Street  
SAROAD:

AQS ID: 080310026  
 Latitude: 39.779460  
 Longitude: -105.005124  
 Reporting capabilities (hourly)  
 SLAMS: CO, PM10, PM2.5  
 NAMS: O3, SO2  
 SPM: NO, RD, RS, TEMP, WD, WS

EPA's November, 2015 PM Hot-spot modeling guidance ("Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM<sub>2.5</sub> and PM<sub>10</sub> Nonattainment and Maintenance Areas") notes the following in section 9.3.4 *24-hour PM<sub>10</sub> NAAQS*:

#### Calculating Design Values and Determining Conformity

The 24-hour PM<sub>10</sub> design value is calculated at each receptor by directly adding the sixth-highest modeled 24-hour concentrations (if using five years of meteorological data) to the appropriate monitor value for the 24-hour background concentration from three years of monitoring data, based on Exhibit 9-6.<sup>153</sup> Exhibit 9-6: Monitor Value Used for Design Value Calculation

Number of Background Concentration Values from the Monitor	Monitor Value Used for Design Value Calculation
< 347	Highest Monitor Value
348 -695	Second Highest Value
696 -1042	Third Highest Value
1043 -1096	Fourth Highest Value

**PM<sub>10</sub> data from the La Casa monitoring site are provided in the table below:**

#### **POC 1 1 in 3 Sampler**

Year	N	Highest value	2 <sup>nd</sup> highest	3 <sup>rd</sup> highest	4 <sup>th</sup> highest
2015	119	55	48	44	43
2014	127	66	65	62	62
2013	122	81	73	56	45

“N” = the number of days of valid data recovery.

**NOTE:** There are actually three PM<sub>10</sub> monitors co-located at the La Casa monitoring location. POC#1 is a “1 in 3” sampler and takes a sample every 3<sup>rd</sup> day; it is our understanding that this is the primary monitor as so designated by CDPHE. POC#2 is a “1 in 6” sampler and takes a sample every 6<sup>th</sup> day and POC#3 is a continuous monitor and samples every day.

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“To estimate emissions from the highway segment nearest the neighborhoods where pollution levels are expected to be the worst, COOT omitted half of expected truck emissions by using the region wide truck share (4.9%) of VMT rather than the actual truck counts on 1-70 (9.8%) reported on CDOT’s website. Does the EPA rule require that emissions from actual traffic on the interstate be modeled?”

FHWA provided the below response:

“For the ROD modeling, FHWA ran MOVES2010b at the Project scale to develop lookup tables of PM10 emissions rates for every possible combination of speed and grade. Separate tables of emissions rates were developed for “cars” and “trucks,” as defined in the DRCOG model. To calculate total emissions for each link, these emissions rates (along with the APCD road dust emissions rates) are applied to the car and truck volumes on each link. Thus, rather than using one project-wide “truck fraction,” truck emissions are explicitly calculated for each link using the reported truck volume for that link.”

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Please let us know if there are any questions.

Thanks!

Tim

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